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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/165,772	10/02/1998	JOHN EDWARD COOK	051481-5047-01	8315
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MORGAN, LEWIS & BOCKIUS, LLP			EXAMINER	
1800 M STREET, N.W. WASHINGTON, DC 20036-5869		POLITZER, JAY L		
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			2856	
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# BEFORE THE BOARD OF PATENT APPEALS AND INTERFERENCES

Paper No. 20

Application Number: 09/165,772 Filing Date: October 02, 1998

Appellant(s): COOK ET AL.

Scott J. Anchell For Appellant

EXAMINER'S ANSWER

MAILED

APR 0 9 2002

GROUP 2800

This is in response to the appeal brief filed 12/17/01.

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## (1) Real Party in Interest

A statement identifying the real party in interest is contained in the brief.

#### (2) Related Appeals and Interferences

A statement identifying the related appeals and interferences which will directly affect or be directly affected by or have a bearing on the decision in the pending appeal is contained in the brief.

## (3) Status of Claims

The statement of the status of the claims contained in the brief is correct.

#### (4) Status of Amendments After Final

The appellant's statement of the status of amendments after final rejection contained in the brief is correct.

## (5) Summary of Invention

The summary of invention contained in the brief is correct.

The appellant's statement of the issues in the brief is correct.

## (7) Grouping of Claims

The rejection of claims 1-3 and 17 stand or fall together because appellant's brief includes a statement that this grouping of claims stand or fall together.

# (8) Claims Appealed

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The copy of the appealed claims contained in the Appendix to the brief is correct.

#### (9) Prior Art of Record

3,413,840 Basile et al 12-1968

#### (10) Grounds of Rejection

The following ground(s) of rejection are applicable to the appealed claims:

The rejection of claims 1-3 under 35 USC 112(2) is withdrawn. Claims 1-3 and 17 are rejected under 35 U.S.C. 103. This rejection is set forth in prior Office Action, Paper No. 15.

#### (11) Response to Argument

The instant application measures pressure and temperature in a tank at a first point in time, and temperature at a second point in time. Then the pressure at the second point in time is computed, from the ideal gas law with the assumption of no weight loss, using pressure and temperature at the first point in time and temperature, only, at the second point in time. The pressure at the second point in time is measured and compared to the computed pressure. If the computed pressure differs from the measured pressure at the second point in time, a leak is declared.

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Basil measures pressure and temperature in a tank at a first point in time, and temperature at a later point in time, continually, using pressure and temperature gauges 5 and 6.

Then the pressure at a later point in time is computed, Pc, from the ideal gas law with the assumption of possible weight loss, using pressure and temperature at a first point in time and temperature, only, at the later point in time. The pressure at the later point in time is measured, Pa, and compared to the computed pressure, Pc, see Col 3, Li 25-28. If the computed pressure, Pc differs from the measured pressure, Pa, at the later point in time, a leak is declared.

Applicant argues that "Basile is directed to a leak detection system for double walled tanks of sea going vessels transporting cargoes of cryogenic liquefied gases". That is, Applicant argues that Basile is non-analogous art. In response to applicant's argument that Basile is non-analogous art, it has been held that a prior art reference must either be in the field of applicant's endeavor or, if not, then be reasonably pertinent to the particular problem with which the applicant was concerned, in order to be relied upon as a basis for rejection of the claimed invention. See In re Oetiker, 977 F.2d 1443, 24 USPQ2d 1443 (Fed. Cir. 1992). In this case, Basile and the instant application each test tanks for leakage, and both are

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classified in 73/49.2. Therefore, if applicant researched the prior art, it would be obligatory to search 73/49.2. In that event the Basile reference would be found. Further, Basile is more generally applicable to other tank-like structures; see Col 1, Li 25-30.

Applicant argues that "Basile further states that leak conditions in the tank "change the weight of gas in the space which affects the signals developed by the pressure sensor but which does not affect significantly those generated by the temperature sensor." Applicant misreads Basile. Basile recognizes that the temperature is changing; Col 1, Li 61-63. That is, there is a temperature gradient that makes heat flow, and ambient conditions change all the time. Basil teaches that if at any time, one computes pressure from the ideal gas law, using a measured temperature (changed from the initial temperature), it should be the same as the actual pressure, where the pressure gauge is exposed to the same temperature (changed from the initial temperature). In that sense only, does Basile mean that the temperature doesn't matter because, it affects the calculated and actual pressure in the same way, even when the temperature is changing.

Applicant argues that "Basile shows a leak detection system that is based on sensing an appreciable transfer of mass with

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respect to the space. This is in contrast to Appellants' invention in which changes in fuel vapor mass are taken to be negligible." Nowhere does Basile comment about the magnitude of the mass transfer. The instant application makes the assumption of negligible mass transfer; a species. Basile is generic in that it includes any amount of mass transfer and any amount of temperature or pressure variation; negligible or not.

Therefore, the instant application is a special case of Basile's more general formulation. Further, and by definition, if there is a leak, product will always be lost.

Applicant argues that "In contrast to Appellants' invention, Basile speaks against detecting leaks with a system that includes measuring temperature variations." If this were the case, why does Basile continually measure temperature?

Applicant argues that "Basile compares calculated and measured pressure values at a common point in time to detect leakage, and consequently, there is no teaching or suggestion of comparing a temperature-compensated vapor pressure with respect to a vapor pressure measured at a different point in time."

Applicant misreads Basil; the calculated pressure is based on the pressure and temperature at an earlier point in time. That is exactly what is done in the instant application.

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For the above reasons, it is believed that the rejections should be sustained.

Respectfully submitted,

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JIP

March 28, 2002

Conferees

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